Geotechnical CONSULTANTS

To	Date: 08-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

REPORT-1

Groundwater investigation was carried out in this area ward no-5 Located at PALENAHALLI THOTA YELAHANKA BANGALORE. On dated, in order to 18/02/18 assess the groundwater potential of the area for DRINKING purpose.The observation and recommended are as follows.

AE verify spot up

The area investigated has a slope towards...NE having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 3. No's points were located and a result is obtained given below;

STRUCTURE 0 to 47mts top soil, clay to highly weathered rock.(SILT ZONE)
47....to ..119..... mts weathered rock to
119....to 189..... mts medium hard rock
189.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 114 to 116 mts 2) 136 to 138mts. 3) 289 to 291mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 3 or 2** to a depth of 295mts and the casing pipes required may be a depth of 56...mts. Approximate yield may be expected 800 to 1600 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

Geotechnical CONSULTANTS

To	Date : 08-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

REPORT-2

Groundwater investigation was carried out in this area WARD NO-5 Located at AGAHARA LAYOUT NEAR ANJANAYA TEMPLEYELAHANKA BANGALORE. On 08/03/18 dated, in order to assess the groundwater potential of the area for DRINKING purpose.The observation and recommended are as follows.

AE Verified & Post Op

The area investigated has a slope towards...NE having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 2. No's points were located and a result is obtained given below;

STRUCTURE 0 to 39mts top soil, clay to highly weathered rock.(SILT ZONE)
39....to ..112..... mts weathered rock to
112....to 188..... mts medium hard rock
188.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 104 to 106 mts 2) 145 to 147mts. 3) 284 to 286mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 2 or 1** to a depth of 295mts and the casing pipes required may be a depth of 43...mts. Approximate yield may be expected 800 to 1600 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

Geotechnical CONSULTANTS

To	Date : 08-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

REPORT-8

Groundwater investigation was carried out in this area WARD NO-5 Located at AGAHAR LAYOUT 1ST MAIN YELAHANKA BANGALORE. On 08/03/18 dated, in order to assess the groundwater potential of the area for DRINKING purpose. The observation and recommended are as follows.

AE. Verify actual set-up

The area investigated has a slope towards...NE having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 3. No's points were located and a result is obtained given below;

STRUCTURE 0 to 46mts top soil, clay to highly weathered rock.(SILT ZONE)
46....to ..129..... mts weathered rock to
129....to 189..... mts medium hard rock
189.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 114 to 116mts 2) 136 to 138mts. 3) 297 to 299mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 3 or 1** to a depth of 308mts and the casing pipes required may be a depth of 49...mts. Approximate yield may be expected 800 to 1600 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

Geotechnical CONSULTANTS

To	Date : 12-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

REPORT-9

Groundwater investigation was carried out in this area WARD NO-5 Located at BSF CAMP YELAHANKA BANGALORE. On dated 12/03/18, in order to assess the groundwater potential of the area for DRINKING purpose.The observation and recommended are as follows.

The area investigated has a slope towards...SE having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 3. No's points were located and a result is obtained given below;

STRUCTURE 0 to 58mts top soil, clay to highly weathered rock.(SILT ZONE)
58....to ..119..... mts weathered rock to
119....to 189..... mts medium hard rock
189.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 117 to 119 mts 2) 136 to 138mts. 3) 289 to 291mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 3 or 2** to a depth of 304mts and the casing pipes required may be a depth of 63...mts. Approximate yield may be expected 800 to 1600 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

Geotechnical CONSULTANTS

To	Date: 12-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

REPORT-10

Groundwater investigation was carried out in this area WARD NO-5 Located at VARA LAYOUT KATTIGANAHALLI YELAHANKA BANGALORE. On 12/03/18 dated, in order to assess the groundwater potential of the area for DRINKING purpose. The observation and recommended are as follows.

AE
Verify & put up

The area investigated has a slope towards...SW having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 3. No's points were located and a result is obtained given below;

STRUCTURE 0 to 36mts top soil, clay to highly weathered rock.(SILT ZONE)
36....to ..119..... mts weathered rock to
119....to 189..... mts medium hard rock
189.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 117 to 119 mts 2) 136 to 138mts. 3) 294 to 296mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 3 or 1** to a depth of 318mts and the casing pipes required may be a depth of 41...mts. Approximate yield may be expected 800 to 1600 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

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Geotechnical CONSULTANTS

To	Date: 12-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

REPORT-11

Groundwater investigation was carried out in this area WARD NO-5 Located at SHIVASHANKAR 2ND CROSS LAYOUT YELAHANKA BANGALORE. On 12/03/18 dated, in order to assess the groundwater potential of the area for DRINKING purpose. The observation and recommended are as follows.

AE Verify & put up

The area investigated has a slope towards...NW having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 3. No's points were located and a result is obtained given below;

STRUCTURE 0 to 59mts top soil, clay to highly weathered rock.(SILT ZONE)
59....to ..126..... mts weathered rock to
126....to 189..... mts medium hard rock
189.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 117 to 119 mts 2) 176 to 178mts. 3) 319 to 321mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 2 or 1** to a depth of 326mts and the casing pipes required may be a depth of 65...mts. Approximate yield may be expected 800 to 1600 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

Geotechnical CONSULTANTS

To	Date : 14-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

REPORT-12

Groundwater investigation was carried out in this area WARD NO-5 Located at SOMESHWARA LAYOUTKATTIGENAHALLI YELAHANKA BANGALORE. On 14/03/18. dated, in order to assess the groundwater potential of the area for DRINKING purpose. The observation and recommended are as follows.

The area investigated has a slope towards...SE having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 3. No's points were located and a result is obtained given below;

STRUCTURE 0 to 41mts top soil, clay to highly weathered rock.(SILT ZONE)
41....to ..119..... mts weathered rock to
119....to 189..... mts medium hard rock
189.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 107 to 109mts 2) 156 to 158mts. 3) 289 to 291mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 3 or 1** to a depth of 308mts and the casing pipes required may be a depth of 47...mts. Approximate yield may be expected 800 to 1600 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

Geotechnical CONSULTANTS

To	Date: 14-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

REPORT-4

Groundwater investigation was carried out in this area WARD NO-5 Located at DWARKANAGAR 5TH CROSS YELAHANKA BANGALORE. On 14/03/18 dated, in order to assess the groundwater potential of the area for DRINKING purpose.The observation and recommended are as follows.

AE Vesity supply request

The area investigated has a slope towards...NE having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 2. No's points were located and a result is obtained given below;

STRUCTURE 0 to 38mts top soil, clay to highly weathered rock.(SILT ZONE)
38....to ..112..... mts weathered rock to
112....to 189..... mts medium hard rock
189.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 127 to 129mts 2) 138 to 140mts. 3) 290 to 292mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 2** to a depth of 300mts and the casing pipes required may be a depth of 43...mts. Approximate yield may be expected 800 to 1600 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

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Geotechnical CONSULTANTS

To	Date: 17-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

REPORT-6

Groundwater investigation was carried out in this area WARD NO-5 Located at POOJA MAHALAXMI LAYOUT KOGILU YELAHANKABANGALORE. On dated, 17/03/18 in order to assess the groundwater potential of the area for DRINKING purpose.The observation and recommended are as follows.

AE Verify & put up report

The area investigated has a slope towards...SW having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 3. No's points were located and a result is obtained given below;

STRUCTURE 0 to 43mts top soil, clay to highly weathered rock.(SILT ZONE)
43....to ..129..... mts weathered rock to
129....to 189..... mts medium hard rock
189.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 117 to 119 mts 2) 136 to 138mts. 3) 272 to 274mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 3 or 2** to a depth of 278mts and the casing pipes required may be a depth of 47...mts. Approximate yield may be expected 800 to 1600 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

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Geotechnical CONSULTANTS

To	Date : 17-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

AE Verify Ewater wk

REPORT-7

Groundwater investigation was carried out in this area WARD NO-5 Located at BELLAHALLI MAIN ROAD YELAHANKA BANGALORE. On 17/03/18 dated, in order to assess the groundwater potential of the area for DRINKING purpose.The observation and recommended are as follows.

The area investigated has a slope towards...NW having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 3. No's points were located and a result is obtained given below;

STRUCTURE 0 to 28mts top soil, clay to highly weathered rock.(SILT ZONE)
28....to ..113..... mts weathered rock to
113....to 182..... mts medium hard rock
182.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 119 to 121 mts 2) 166 to 168mts. 3) 289 to 291mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 3 or 1** to a depth of 318mts and the casing pipes required may be a depth of 33...mts. Approximate yield may be expected 800 to 1000 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

(11)

Geotechnical CONSULTANTS

To	Date: 17-03-18
Executive Engineer PROJECT WARD NO-5 BBMP YELAHANKA ZONE BANGALORE	NO -7 LINGAPPA BLOCK H.D.DEVAGOWDA ROAD R.T.NAGAR BANGALORE-32 Cell: 9739631091 & 9035001336 Email: mdasif502@gmail

REPORT-5

Groundwater investigation was carried out in this area WARD NO-5 Located at BABANNAGAR YELAHANKA BANGALORE. On 17/02/18 dated, in order to assess the groundwater potential of the area for DRINKING purpose.The observation and recommended are as follows.

AE Verify & put up

The area investigated has a slope towards...SE having even Topography and is covered by ... red... soil. Hydro geological feature are found to be favorable for groundwater extraction. Geology of the area is marked by granite. Based on the Hydro geological condition, Geological survey conducted and by the studying of satellite imageries lineament is a fracture zone observed in the area. 2. No's points were located and a result is obtained given below;

STRUCTURE 0 to 48mts top soil, clay to highly weathered rock.(SILT ZONE)
48....to ..119..... mts weathered rock to
119....to 189..... mts medium hard rock
189.....to 290..... mts hard rock
Below ...290.....mts very hard rock.

SOURES EXPECTED at: 1) 117 to 119 mts 2) 136 to 138mts. 3) 299 to 301mts.

From the study of the above field observation a Borewell is recommended for drilling at **point No- 2 or 1** to a depth of 318mts and the casing pipes required may be a depth of 51...mts. Approximate yield may be expected 800 to 1600 GPH.

Although the best site for drilling has been suggest. NO GUARANTEE OF SUCCESS CAN BE GIVEN

Md ASIF M.Sc(Geo) M.Phil
Chief hydrogeologist.

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